

AMENDMENTS TO THE CLAIMS

Claim 1 (currently amended): An image input apparatus comprising:

a micro-lens array having a plurality of micro-lenses; and

a light ~~detecting-receiving~~ element facing said micro-lens array;

wherein a single object image of ~~an~~ a subject is obtained by rearranging image information of a plurality of object reduced images focused on ~~a prescribed region on~~ said light ~~detecting-receiving~~ element by said micro-lens array, and a relative position between a light axis of said micro-lens and a central axis of said ~~prescribed region on~~ said ~~light detecting-receiving~~ element, on which said object reduced images are focused as responding to each one of said micro-lenses, is arrayed to sequentially increase by a certain quantity so that one end is smallest and the other end is largest relative to vertical and horizontal directions in an alignment differently for each of said micro-lens array.

Claim 2 (cancelled):

Claim 3 (currently amended): An image input apparatus according to claim ~~2~~ 1, wherein said ~~specified certain~~ quantity is s/N ~~where:~~

s is a pitch of said light ~~detecting-receiving~~ element in one of the vertical and horizontal direction in an alignment of said micro-lens array, and

~~(N)~~ N is a number of said micro-lens units in the direction of said pitch of said light receiving elements.

Claim 4 (cancelled)

Claim 5 (cancelled)

Claim 6 (currently amended): An image input apparatus according to claim 1, wherein, in process of obtaining a single object image by rearranging said image information of a plurality of object reduced images focused on said prescribed region on said light ~~deteeting-receiving~~ element per said micro-lens, rearranged positions on said object image, to where said image information of said object reduced images are rearranged, are determined on the basis of said relative position.

Claim 7-9 (cancelled)

Claim 10 (new): An image input apparatus according to claim 3, wherein, in process of obtaining a single object image by rearranging said image information of a plurality of object reduced images focused on said prescribed region on said light receiving element per said micro-lens, rearranged positions on said object image, to where said image information of said object reduced images are rearranged, are determined on the basis of said relative position.